REMOTE SENS. ENVIRON. 34:217–220 (1990)

Author Index to Volumes 31–34

Aase, J. K.: *See* Jackson, R. D.

Abel, P.: Prelaunch Calibration of the NOAA-11 AVHRR Visible and Near IR Channels, 31:227

Adams, J. B.: *See* Roberts, D. A.

Adams, J. B.: *See* Smith, M. O.

Ahmad, S. P.: *See* Markham, B. L.

Aifadopoulou, D.: *See* Hill, J.

Alberotanza, L.: *See* Zibordi, G.

Albers, B. J., Strahler, A. H., Li, X., Liang, S., Clarke, K. C.: Radiometric Measurements of Gap Probability in Conifer Tree Canopies, 34:179

Alves, L. M.: *See* Matthias, A. D.

Antyufeev, V. S., Marshak, A. L.: Inversion of Monte Carlo Model for Estimating Vegetation Canopy Parameters, 33:201

Antyufeev, V. S., Marshak, A. L.: Monte Carlo Method and Transport Equation in Plant Canopies, 31:183

Baret F.: *See* Jacquemoud, S.

Barnes, F. J., Karl, R. J., Kunkel, K. E., Stone, G. L.: Lidar Determination of Horizontal and Vertical Variability in Water Vapor over Cotton, 32:81

Bartell, R. J.: *See* Moran, M. S.

Batista, G. T.: *See* Rudorff, B. F. T.

Becker, F.: *See* Li, Z.-L.

Becker, F., Li, Z.-L.: Temperature-Independent Spectral Indices in Thermal Infrared Bands, 32:17

Biggar, S. F.: *See* Moran, M. S.

Biggar, S. F., Gellman, D. I., Slater, P. N.: Improved Evaluation of Optical Depth Components from Langley Plot Data, 32:91

Blad, B. L.: *See* Wiegand, C. L.

Bouman, B. A. M., van Kasteren, H. W. J.: Ground-Based X-Band (3-cm Wave) Radar Backscattering of Agricultural Crops. I. Sugar Beet and Potato, 34:93

Bouman, B. A. M., van Kasteren, H. W. J.: Ground-Based X-Band (3-cm Wave) Radar Backscattering of Agricultural Crops. II. Wheat, Barley and Oats 34:107

Bradshaw, G.: *See* Cohen, W. B.

Brisco, B., Brown, R. J., Koehler, J. A., Sofko, G. J., McKibben, M. J.: The Diurnal Pattern of Microwave Backscattering by Wheat, 34:37

Brisco, B.: *See* Gillespie, T. J.

Brown, P. W.: *See* Daughtry, C. S. T.

Brown, R. J.: *See* Brisco, B.

Brown, R. J.: *See* Gillespie, T. J.

Carnahan, W. H., Larson, R. C.: An Analysis of an Urban Heat Sink, 33:65

Caselles, V.: *See* Sobrino, J. A.

Chang, A. T. C.: *See* Hall, D. K.

Choubey, V. K., Subramaniam, V.: Nature of Suspended Solids and IRS1A-LISSI Data: A Case Study of Tawa Reservoir (Narmada Basin), 34:207

Chuah, H. T., Tan, H. S.: A Multiconstituent and Multilayer Microwave Backscatter Model for a Vegetative Medium, 31:137

Clark, J. A.: *See* Demetriades–Shah, T. H.

Clarke, K. C.: *See* Albers, B. J.

Cohen, W. B., Spies, T. A., Bradshaw, G. A.: Semivariograms of Digital Imagery for Analysis of Conifer Canopy Structure, 34:167

Coleman, T. L., Gudapati, L., Derrington, J.: Monitoring Forest Plantations Using Landsat Thematic Mapper Data, 33:211

Conese, C.: *See* Maselli, F.

Cooper, C. M.: *See* Ritchie, J. C.

Cooper, D. I.: *See* Matthias, A. D.

Crippen, R. E.: Calculating the Vegetation Index Faster, 34:71

Dahm, C. N.: *See* Gosz, J.

Daughtry, C. S. T., Kustas, W. P., Moran, M. S., Pinter, P. J. Jr., Jackson, R. D., Brown, P. W., Nichols, W. D., Gay, L. W.: Spectral Estimates of Net Radiation and Soil Heat Flux, 32:111

Demetriades–Shah, T. H., Steven, M. D., Clark, J. A.: High Resolution Derivative Spectra in Remote Sensing, 33:55

Derrington, J.: *See* Coleman, T. L.

Ding, Y.: *See* Teillet, P. M.

Duell, L. F. W.: *See* Kustas, W. P.

Dusek, D.: *See* Wiegand, C. L.

Fedosejeva, G.: *See* Jackson, R. D.

Fisher, P. F., Pathirana, S.: The Evaluation of Fuzzy Membership of Land Cover Classes in the Suburban Zone, 34:121

Gallo, K. P.: *See* Wiegand, C. L.

Gatto, L. W.: Monitoring River Ice with Landsat Images, 32:1

Gay, L. W.: *See* Daughtry, C. S. T.

Gay, L. W.: *See* Kustas, W. P.

Gay, L. W.: *See* Matthias, A. D.

Gellman, D. I.: *See* Biggar, S. F.

Gellman, D. I.: *See* Moran, M. S.

Gerbermann, A. H.: *See* Wiegand, C. L.

Gillespie, A. R.: *See* Smith, M. O.

Gillespie, T. J., Brisco, B., Brown, R. J., Sofko, G. J.: Radar Detection of a Dew Event in Wheat, 33:151
Gosz, J., Moore, D. I., Dahm, C. N., Hofstadler, S.: Field Testing Long-Path Fourier Transform Infrared (FTIR) Spectroscopy for Measurements of Atmospheric Gas Concentrations, 32:103
Goward, S. N.: *See* Hall, F. G.
Gudapati, L.: *See* Coleman, T. L.
Guenther, B., McLean, J., Leroy, M., Henry, P.: Comparison of CNES Spherical and NASA Hemispherical Large Aperture Integrating Sources: I. Using a Laboratory Transfer Spectroradiometer, 31:85
Guenther, B.: *See* Leroy, M.

Hall, D. K., Kovalick, W. M., Chang, A. T. C.: Satellite-Derived Reflectance of Snow-Covered Surfaces in Northern Minnesota, 33:87
Hall, F. G., Huemmrich, K. F., Goward, S. N.: Use of Narrow-Band Spectra to Estimate the Fraction of Absorbed Photosynthetically Active Radiation, 32:47
Hart, G. F.: *See* Moran, M. S.
Henry, P.: *See* Guenther, B.
Henry, P.: *See* Leroy, M.
Hill, J., Aifadopoulou, D.: Comparative Analysis of Landsat-5 TM and SPOT HRV-1 Data for Use in Multiple Sensor Approaches, 34:55
Hofstadler, S.: *See* Gosz, J.
Hoge, F. E., Swift, R. N.: Photosynthetic Accessory Pigments: Evidence for the Influence of Phycoerythrin on the Submarine Light Field, 34:19
Hubert, L.: *See* O'Neill, N. T.
Huemmrich, K. F.: *See* Hall, F. G.
Huete, A. R., Warrick, A. W.: Assessment of Vegetation and Soil Water Regimes in Partial Canopies with Optical Remotely Sensed Data, 32:155

Jackson, R. D.: *See* Daughtry, C. S. T.
Jackson, R. D.: *See* Kustas, W. P.
Jackson, R. D.: *See* Moran, M. S.
Jackson, R. D.: *See* Pinter, P. J. Jr.
Jackson, R. D.: *See* Teillet, P. M.
Jackson, R. D. The MAC Experiments (Foreword), 32:77
Jackson, R. D., Teillet, P. M., Slater, P. N., Fedosejeva, G., Jasinski, M. F., Aase, J. K., Moran, M. S.: Bidirectional Measurements of Surface Reflectance for View Angle Corrections of Oblique Imagery, 32:189
Jackson, T. J.: *See* O'Neill, P. E.
Jacquemoud, S., Baret, F.: PROSPECT: A Model of Leaf Optical Properties Spectra, 34:75
Jasinski, M. F.: *See* Jackson, R. D.
Jasinski, M. F.: Sensitivity of the Normalized Difference Vegetation Index to Subpixel Canopy Cover, Soil Albedo, and Pixel Scale, 32:169
Jupp, D. L. B.: *See* Strahler, A. H.

Kanemasu, E. T.: *See* Su, H.
Karl, R. J.: *See* Barnes, F. J.
Kharuk, V. I., Yegorov, V. V.: Polarimetric Indication of Plant Stress, 33:35
Koehler, J. A.: *See* Brisco, B.
Kovalick, W. M.: *See* Hall, D. K.
Kunkel, K. E.: *See* Barnes, F. J.
Kunkel, K. E.: *See* Kustas, W. P.
Kustas, W. P.: *See* Daughtry, C. S. T.
Kustas, W. P.: *See* Matthias, A. D.
Kustas, W. P., Moran, M. S., Jackson, R. D., Gay, L. W., Duell, L. F. W., Kunkel, K. E., Matthias, A. D.: Instantaneous and Daily Values of the Surface Energy Balance over Agricultural Fields Using Remote Sensing and a Reference Field in an Arid Environment, 32:125

Larson, R. C.: *See* Carnahan, W. H.
Leroy, M., Henry, P., Guenther, B., McLean, J.: Comparison of CNES Spherical and NASA Hemispherical Large Aperture Integration Sources: II. Using the SPOT-2 Satellite Instruments, 31:97
Leroy, M.: *See* Guenther, B.
Li, X.: *See* Albers, B. J.
Li, Z.-L.: *See* Becker, F.
Li, Z.-L., Becker, F.: Properties and Comparison of Temperature-Independent Thermal Infrared Spectral Indices with NDVI for HAPEX Data, 33:165
Liang, S.: *See* Albers, B. J.

Markham, B. L., Ahmad, S. P.: Radiometric Properties of the NS001 Thematic Mapper Simulator Aircraft Multispectral Scanner, 34:133
Marshak, A. L.: *See* Antyufeev, V. S.
Maselli, F., Conese, C., Zipoli, G., Pittau, M. A.: Use of Error Probabilities to Improve Area Estimates Based on Maximum Likelihood Classifications, 31:155
Masuda, K., Takashima, T.: Deriving Cirrus Information Using the Visible and Near-IR Channels of the Future NOAA-AVHRR Radiometer, 31:65
Masuda, K., Takashima, T.: Sensitivity of Shortwave Radiation Absorbed in the Ocean to Cirrus Parameters, 33:75
Matthias, A. D.: *See* Kustas, W. P.
Matthias, A. D., Kustas, W. P., Gay, L. W., Cooper, D. I., Alves, L. M., Pinter, P. J. Jr.: Aerodynamic Parameters for a Sparsely Roughened Surface Composed of Small Cotton Plants and Ridged Soil, 32:143

Mätzler, C.: Seasonal Evolution of Microwave Radiation from an Oat Field, 31:161
McKibben, M. J.: *See* Brisco, B.
McLean, J.: *See* Guenther, B.
McLean, J.: *See* Leroy, M.
Meneghini, R., Nakamura, K.: Range Profiling of the Rain Rate by an Airborne Weather Radar, 31:193
Mitchell, R. M.: *See* Paltridge, G. W.
Moore, D. I.: *See* Gosz, J.
Moran, M. S.: *See* Daughtry, C. S. T.
Moran, M. S.: *See* Jackson, R. D.
Moran, M. S.: *See* Kustas, W. P.
Moran, M. S.: *See* Pinter, P. J. Jr.
Moran, M. S.: *See* Teillet, P. M.
Moran, M. S., Jackson, R. D., Hart, G. F., Slater, P. N., Bartell, R. J., Biggar, S. F., Gellman, D. I., Santer, R. P.: Obtaining Surface Reflectance Factors from Atmospheric and View Angle Corrected SPOT-1 HRV Data, 32:203

Nakamura, K.: *See* Meneghini, R.
Nichols, W. D.: *See* Daughtry, C. S. T.
Nieuwenhuis, G. J. A.: *See* Thunnissen, H. A. M.

O'Neill, N. T., Royer, A., Hubert, L.: Remote Sensing of Aerosols from Space: Information Content of Monochromatic Atmospheric Reflectances, 34:193
O'Neill, P. E., Jackson, T. J.: Observed Effects of Soil Organic Matter Content on the Microwave Emissivity of Soils, 31:175
Otterman, J.: Inferring Parameters for Canopies Nonuniform in Azimuth by Model Inversion, 33:41

Paltridge, G. W., Mitchell, R. M.: Atmospheric and Viewing Angle Correction of Vegetation Indices and Grassland Fuel Moisture Content Derived from NOAA/AVHRR, 31:121
Parmiggiani, F.: *See* Zibordi, G.
Pathirana, S.: *See* Fisher, P. F.
Peterson, D. L.: *See* Spanner, M. A.
Pierce, L. L.: *See* Spanner, M. A.
Pinter, P. J. Jr.: *See* Daughtry, C. S. T.
Pinter, P. J. Jr.: *See* Matthias, A. D.
Pinter, P. J. Jr., Jackson, R. D., Moran, M. S.: Bidirectional Reflectance Factors of Agricultural Targets: A Comparison of Ground-, Aircraft-, and Satellite-Based Observations, 32:215
Pittau, M. A.: *See* Maselli, F.
Price, J. C.: On the Information Content of Soil Reflectance Spectra, 33:113
Pritchard, D. W.: *See* Yan, X.-H.

Ransom, M. D.: *See* Su, H.
Ritchie, J. C., Cooper, C. M., Schiebe, F. R.: The Relationship of MSS and TM Digital Data with Suspended Sediments, Chlorophyll, and Temperature in Moon Lake, Mississippi, 33:137
Roberts, D. A., Adams, J. B., Smith, M. O.: Predicted Distribution of Visible and Near-Infrared Radiant Flux Above and Below a Transmittant Leaf, 34:1
Royer, A.: *See* O'Neill, N. T.
Rudorff, B. F. T., Batista, G. T.: Spectral Response of Wheat and Its Relationship to Agronomic Variables in the Tropical Region, 31:53
Rudorff, B. F. T., Batista, G. T.: Yield Estimation of Sugarcane Based on Agrometeorological-Spectral Models, 33:183
Running, S. W.: *See* Spanner, M. A.

Santer, R. P.: *See* Moran, M. S.
Santer, R. P.: *See* Teillet, P. M.
Schiebe, F. R.: *See* Ritchie, J. C.
Schubel, J. R.: *See* Yan, X.-H.
Simpson, J. J.: On the Accurate Detection and Enhancement of Oceanic Features Observed in Satellite Data, 33:17
Slater, P. N.: *See* Biggar, S. F.
Slater, P. N.: *See* Jackson, R. D.
Slater, P. N.: *See* Moran, M. S.
Slater, P. N.: *See* Teillet, P. M.
Smith, M. O.: *See* Roberts, D. A.
Smith, M. O., Ustin, S. L., Adams, J. B., Gillespie, A. R.: Vegetation in Deserts: I. A Regional Measure of Abundance from Multispectral Images, 31:1
Smith, M. O., Ustin, S. L., Adams, J. B., Gillespie, A. R.: Vegetation in Deserts: II. Environmental Influences on Regional Abundance, 31:27
Sobrino, J. A., Caselles, V.: Thermal Infrared Radiance Model for Interpreting the Directional Radiometric Temperature of a Vegetative Surface, 33:193
Sofko, G. J.: *See* Brisco, B.
Sofko, G. J.: *See* Gillespie, T. J.
Spanner, M. A., Pierce, L. L., Running, S. W., Peterson, D. L.: The Seasonality of AVHRR Data of Temperate Coniferous Forests: Relationship with Leaf Area Index, 33:97
Spies, T. A.: *See* Cohen, W. B.
Steven, M. D.: *See* Demetriades–Shah, T. H.
Stone, G. L.: *See* Barnes, F. J.
Strahler, A. H.: *See* Albers, B. J.
Strahler, A. H., Jupp, D. L. B.: Modeling Bidirectional Reflectance of Forests and Woodlands Using Boolean Models and Geometric Optics, 34:153
Su, H., Kanemasu, E. T., Ransom, M. D., Yang, S.-S.: Separability of Soils in a Tallgrass Prairie Using SPOT and DEM Data, 33:157
Subramaniam, V.: *See* Choubey, V. K.
Swift, R. N.: *See* Hoge, F. E.

Takashima, T.: *See* Masuda, K.
Tan, H. S.: *See* Chuah, H. T.

Teillet, P. M.: *See* Jackson, R. D.
Teillet, P. M., Slater, P. N., Ding, Y., Santer, R. P., Jackson, R. D., Moran, M. S.: Three Methods for the Absolute Calibration of the NOAA AVHRR Sensors In-Flight, 31:105
Thunnissen, H. A. M., Nieuwenhuis, G. J. A.: A Simplified Method to Estimate Regional 24-h Evapotranspiration from Thermal Infrared Data, 31:211

Ustin, S. L.: *See* Smith, M. O.

van Kasteren, H. W. J.: *See* Bouman, B. A. M.
Vidal, A.: *See* Yang, C.

Warrick, A. W.: *See* Huete, A. R.
Wegmüller, U.: The Effect of Freezing and Thawing on the Microwave Signatures of Bare Soil, 33:123
Wiegand, C. L., Gerbermann, A. H., Gallo, K. P., Blad, B. L., Dusek, D.: Multisite Analyses of Spectral-Biophysical Data for Corn, 33:1

Yan, X.-H., Schubel, J. R., Pritchard, D. W.: Oceanic Upper Mixed Layer Depth Determination by the Use of Satellite Data, 32:55
Yang, C., Vidal, A.: Combination of Digital Elevation Models with SPOT-1 HRV Multispectral Imagery for Reflectance Factor Mapping, 32:35
Yang, S.-S.: *See* Su, H.
Yegorov, V. V.: *See* Kharuk, V. I.

Zibordi, G., Parmiggiani, F., Alberotanza, L.: Application of Aircraft Multispectral Scanner Data to Algae Mapping Over the Venice Lagoon, 34:49
Zipoli, G.: *See* Maselli, F.

REMOTE SENS. ENVIRON. 34:221–226 (1990)

Subject Index to Volumes 31–34

Albedo

Sensitivity of the Normalized Difference Vegetation Index to Subpixel Canopy Cover, Soil Albedo, and Pixel Scale, M. F. Jasinski, 32:169

Atmospheric Effects

Field Testing Long-Path Fourier Transform Infrared (FTIR) Spectroscopy for Measurements of Atmospheric Gas Concentrations, J. Gosz, D. I. Moore, C. N. Dahm, and S. Hofstadler, 32:103

Improved Evaluation of Optical Depth Components from Langley Plot Data, S. F. Biggar, D. I. Gellman, and P. N. Slater, 32:91

Lidar Determination of Horizontal and Vertical Variability in Water Vapor over Cotton, F. J. Barnes, R. J. Karl, K. E. Kunkel, and G. L. Stone, 32:81

Obtaining Surface Reflectance Factors from Atmospheric and View Angle Corrected SPOT-1 HRV Data, M. S. Moran, R. D. Jackson, G. F. Hart, P. N. Slater, R. J. Bartell, S. F. Biggar, D. I. Gellman, and R. P. Santer, 32:203

Remote Sensing of Aerosols from Space: Information Content of Monochromatic Atmospheric Reflectances, N. T. O'Neill, A. Royer, and L. Hubert, 34:193

Sensitivity of Shortwave Radiation Absorbed in the Ocean to Cirrus Parameters, K. Masuda and T. Takashima, 33:75

AVHRR

Atmospheric and Viewing Angle Correction of Vegetation Indices and Grassland Fuel Moisture Content Derived from NOAA/AVHRR, G. W. Paltridge and R. M. Mitchell, 31:121

Deriving Cirrus Information Using the Visible and Near-IR Channels of the Future NOAA-AVHRR Radiometer, K. Masuda and T. Takashima, 31:65

Oceanic Upper Mixed Layer Depth Determination by the Use of Satellite Data, X.-H. Yan, J. R. Schubel, and D. W. Pritchard, 32:55

On the Accurate Detection and Enhancement of Oceanic Features Observed in Satellite Data, J. J. Simpson, 33:17

Prelaunch Calibration of the NOAA-11 AVHRR Visible and Near IR Channels, P. Abel, 31:227

The Seasonality of AVHRR Data of Temperate Coniferous Forests: Relationship with Leaf Area Index, M. A. Spanner, L. L. Pierce, S. W. Running, and D. L. Peterson, 33:97

Sensitivity of Shortwave Radiation Absorbed in the Ocean to Cirrus Parameters, K. Masuda and T. Takashima, 33:75

Three Methods for the Absolute Calibration of the NOAA AVHRR Sensors In-Flight, P. M. Teillet, P. N. Slater, Y. Ding, R. P. Santer, R. D. Jackson, and M. S. Moran, 31:105

Assessment of Vegetation and Soil Water Regimes in Partial Canopies with Optical Remotely Sensed Data, A. R. Huete and A. W. Warrick, 32:155

Inferring Parameters for Canopies Nonuniform in Azimuth by Model Inversion, J. Otterman, 33:41

Inversion of Monte Carlo Model for Estimating Vegetation Canopy Parameters, V. S. Antyufeev and A. L. Marshak, 33:201

Modeling Bidirectional Reflectance of Forests and Woodlands Using Boolean Models and Geometric Optics, A. H. Strahler and D. L. B. Jupp, 34:153

Monte Carlo Method and Transport Equation in Plant Canopies, V. S. Antyufeev and A. L. Marshak, 31:183

A Multiconstituent and Multilayer Microwave Backscatter Model for a Vegetative Medium, H. T. Chuah and H. S. Tan, 31:137

Predicted Distribution of Visible and Near-Infrared Radiant Flux Above and Below a Transmittant Leaf, D. A. Roberts, J. B. Adams, and M. O. Smith, 34:1

Use of Narrow-Band Spectra to Estimate the Fraction of Absorbed Photosynthetically Active Radiation, F. G. Hall, K. F. Huemmrich, and S. N. Goward, 32:47

Classification

The Evaluation of Fuzzy Membership of Land Cover Classes in the Suburban Zone, P. F. Fisher and S. Pathirana, 34:121

Semivariograms of Digital Imagery for Analysis of Conifer Canopy Structure, W. B. Cohen, T. A. Spies, and G. A. Bradshaw, 34:167

Use of Error Probabilities to Improve Area Estimates Based on Maximum Likelihood Classifications, F. Maselli, C. Conese, G. Zipoli, and M. A. Pittau, 31:155

Clouds

Deriving Cirrus Information Using the Visible and Near-IR Channels of the Future NOAA-AVHRR Radiometer, K. Masuda and T. Takashima, 31:65

Range Profiling of the Rain Rate by an Airborne Weather Radar, R. Meneghini and K. Nakamura, 31:193

Crop

Assessment of Vegetation and Soil Water Regimes in Partial Canopies with Optical Remotely Sensed Data, A. R. Huete and A. W. Warrick, 32:155

Bidirectional Reflectance Factors of Agricultural Targets: A Comparison of Ground-, Aircraft-, and Satellite-Based Observations, P. J. Pinter Jr., R. D. Jackson, and M. S. Moran, 32:215

The Diurnal Pattern of Microwave Backscattering by Wheat, B. Brisco, R. J. Brown, J. A. Koehler, G. J. Sofko, and M. J. McKibben, 34:37

Ground-Based X-Band (3-cm Wave) Radar Backscattering of Agricultural Crops. I. Sugar Beet and Potato, B. A. M. Bouman and H. W. J. van Kasteren, 34:93

Ground-Based X-Band (3-cm Wave) Radar Backscattering of Agricultural Crops. II. Wheat, Barley and Oats, B. A. M. Bouman and H. W. J. van Kasteren, 34:107

Multisite Analyses of Spectral-Biophysical Data for Corn, C. L. Wiegand, A. H. Gerbermann, K. P. Gallo, B. L. Blad, and D. Dusek, 33:1

Radar Detection of a Dew Event in Wheat, T. J. Gillespie, B. Brisco, R. J. Brown, and G. J. Sofko, 33:151

Seasonal Evolution of Microwave Radiation from an Oat Field, C. Mätzler, 31:161

A Simplified Method to Estimate Regional 24-h Evapotranspiration from Thermal Infrared Data, H. A. M. Thunnissen and G. J. A. Nieuwenhuis, 31:211

Spectral Response of Wheat and Its Relationship to Agronomic Variables in the Tropical Region, B. F. T. Rudorff and G. T. Batista, 31:53

Yield Estimation of Sugarcane Based on Agrometeorological-Spectral Models, B. F. T. Rudorff and G. T. Batista, 33:183

Desert

Vegetation in Deserts: I. A Regional Measure of Abundance from Multispectral Images, M. O. Smith, S. L. Ustin, J. B. Adams, and A. R. Gillespie, 31:1

Vegetation in Deserts: II. Environmental Influences on Regional Abundance, M. O. Smith, S. L. Ustin, J. B. Adams, and A. R. Gillespie, 31:27

Digital Image Processing

Calculating the Vegetation Index Faster, R. E. Crippen, 34:71

The Evaluation of Fuzzy Membership of Land Cover Classes in the Suburban Zone, P. F. Fisher and S. Pathirana, 34:121

Semivariograms of Digital Imagery for Analysis of Conifer Canopy Structure, W. B. Cohen, T. A. Spies, and G. A. Bradshaw, 34:167

Emissivity

Observed Effects of Soil Organic Matter Content on the Microwave Emissivity of Soils, P. E. O'Neill and T. J. Jackson, 31:175

Energy Budgets

Aerodynamic Parameters for a Sparsely Roughened Surface Composed of Small Cotton Plants and Ridged Soil, A. D. Matthias, W. P. Kustas, L. W. Gay, D. I. Cooper, L. M. Alves, and P. J. Pinter Jr., 32:143

Instantaneous and Daily Values of the Surface Energy Balance over Agricultural Fields Using Remote Sensing and a Reference Field in an Arid Environment, W. P. Kustas, M. S. Moran, R. D. Jackson, L. W. Gay, L. F. W. Duell, K. E. Kunkel, and A. D. Matthias, 32:125

Spectral Estimates of Net Radiation and Soil Heat Flux, C. S. T. Daughtry, W. P. Kustas, M. S. Moran, P. J. Pinter Jr., R. D. Jackson, P. W. Brown, W. D. Nichols, and L. W. Gay, 32:111

Estimation

Use of Error Probabilities to Improve Area Estimates Based on Maximum Likelihood Classifications, F. Maselli, C. Conese, G. Zipoli, and M. A. Pittau, 31:155

Yield Estimation of Sugarcane Based on Agrometeorological-Spectral Models, B. F. T. Rudorff and G. T. Batista, 33:183

Fluorescence

Photosynthetic Accessory Pigments: Evidence for the Influence of Phycoerythrin on the Submarine Light Field, F. E. Hoge and R. N. Swift, 34:19

Forestry

Modeling Bidirectional Reflectance of Forests and Woodlands Using Boolean Models and Geometric Optics, A. H. Strahler and D. L. B. Jupp, 34:153

Monitoring Forest Plantations Using Landsat Thematic Mapper Data, T. L. Coleman, L. Gudapati, and J. Derrington, 33:211

Radiometric Measurements of Gap Probability in Conifer Tree Canopies, B. J. Albers, A. H. Strahler, X. Li, S. Liang, and K. C. Clarke, 34:179

The Seasonality of AVHRR Data of Temperate Coniferous Forests: Relationship with Leaf Area Index, M. A. Spanner, L. L. Pierce, S. W. Running, and D. L. Peterson, 33:97

Semivariograms of Digital Imagery for Analysis of Conifer Canopy Structure, W. B. Cohen, T. A. Spies, and G. A. Bradshaw, 34:167

Grasslands

Atmospheric and Viewing Angle Correction of Vegetation Indices and Grassland Fuel Moisture Content Derived from NOAA/AVHRR, G. W. Paltridge and R. M. Mitchell, 31:121

Ice

Monitoring River Ice with Landsat Images, L. W. Gatto, 32:1

LIDAR

Lidar Determination of Horizontal and Vertical Variability in Water Vapor over Cotton, F. J. Barnes, R. J. Karl, K. E. Kunkel, and G. L. Stone, 32:81

Landsat

An Analysis of an Urban Heat Sink, W. H. Carnahan and R. C. Larson, 33:65

Comparative Analysis of Landsat-5 TM and SPOT HRV-1 Data for Use in Multiple Sensor Approaches, J. Hill and D. Aifadopoulou, 34:55

The Evaluation of Fuzzy Membership of Land Cover Classes in the Suburban Zone, P. F. Fisher and S. Pathirana, 34:121

Monitoring Forest Plantations Using Landsat Thematic Mapper Data, T. L. Coleman, L. Gudapati, and J. Derrington, 33:211

Monitoring River Ice with Landsat Images, L. W. Gatto, 32:1

Radiometric Properties of the NS001 Thematic Mapper Simulator Aircraft Multispectral Scanner, B. L. Markham and S. P. Ahmad, 34:133

The Relationship of MSS and TM Digital Data with Suspended Sediments, Chlorophyll, and Temperature in Moon Lake, Mississippi, J. C. Ritchie, C. M. Cooper, and F. R. Schiebe, 33:137

Satellite-Derived Reflectance of Snow-Covered Surfaces in Northern Minnesota, D. K. Hall, W. M. Kovalick, A. T. C. Chang, 33:87

Use of Error Probabilities to Improve Area Estimates Based on Maximum Likelihood Classifications, F. Maselli, C. Conese, G. Zipoli, and M. A. Pittau, 31:155

Vegetation in Deserts: I. A Regional Measure of Abundance from Multispectral Images, M. O. Smith, S. L. Ustin, J. B. Adams, and A. R. Gillespie, 31:1

Vegetation in Deserts: II. Environmental Influences on Regional Abundance, M. O. Smith, S. L. Ustin, J. B. Adams, and A. R. Gillespie, 31:27

Yield Estimation of Sugarcane Based on Agrometeorological-Spectral Models, B. F. T. Rudorff and G. T. Batista, 33:183

Laser

Lidar Determination of Horizontal and Vertical Variability in Water Vapor over Cotton, F. J. Barnes, R. J. Karl, K. E. Kunkel, and G. L. Stone, 32:81

Ocean

Oceanic Upper Mixed Layer Depth Determination by the Use of Satellite Data, X.-H. Yan, J. R. Schubel, and D. W. Pritchard, 32:55

On the Accurate Detection and Enhancement of Oceanic Features Observed in Satellite Data, J. J. Simpson, 33:17

Photosynthetic Accessory Pigments: Evidence for the Influence of Phycoerythrin on the Submarine Light Field, F. E. Hoge and R. N. Swift, 34:19

Sensitivity of Shortwave Radiation Absorbed in the Ocean to Cirrus Parameters, K. Masuda and T. Takashima, 33:75

Passive Microwave Radiometry

The Effect of Freezing and Thawing on the Microwave Signatures of Bare Soil, U. Wegmüller, 33:123

Observed Effects of Soil Organic Matter Content on the Microwave Emissivity of Soils, P. E. O'Neill and T. J. Jackson, 31:175

Seasonal Evolution of Microwave Radiation from an Oat Field, C. Mätzler, 31:161

Polarimetry

Polarimetric Indication of Plant Stress, V. I. Kharuk and V. V. Yegorov, 33:35

Radar Measurements

The Diurnal Pattern of Microwave Backscattering by Wheat, B. Brisco, R. J. Brown, J. A. Koehler, G. J. Sofko, and M. J. McKibben, 34:37

Ground-Based X-Band (3-cm Wave) Radar Backscattering of Agricultural Crops. I. Sugar Beet and Potato, B. A. M. Bouman and H. W. J. van Kasteren, 34:93

Ground-Based X-Band (3-cm Wave) Radar Backscattering of Agricultural Crops. II. Wheat, Barley and Oats, B. A. M. Bouman and H. W. J. van Kasteren, 34:107

PROSPECT: A Model of Leaf Optical Properties Spectra, S. Jacquemoud and F. Baret, 34:75

Radar Detection of a Dew Event in Wheat, T. J. Gillespie, B. Brisco, R. J. Brown, and G. J. Sofko, 33:151

Range Profiling of the Rain Rate by an Airborne Weather Radar, R. Meneghini and K. Nakamura, 31:193

Radiation Modeling

Inferring Parameters for Canopies Nonuniform in Azimuth by Model Inversion, J. Otterman, 33:41

Inversion of Monte Carlo Model for Estimating Vegetation Canopy Parameters, V. S. Antyufeev and A. L. Marshak, 33:201

Modeling Bidirectional Reflectance of Forests and Woodlands Using Boolean Models and Geometric Optics, A. H. Strahler and D. L. B. Jupp, 34:153

Monte Carlo Method and Transport Equation in Plant Canopies, V. S. Antyufeev and A. L. Marshak, 31:183

A Multiconstituent and Multilayer Microwave Backscatter Model for a Vegetative Medium, H. T. Chuah and H. S. Tan, 31:137

Radiometric Measurements of Gap Probability in Conifer Tree Canopies, B. J. Albers, A. H. Strahler, X. Li, S. Liang, and K. C. Clarke, 34:179

Remote Sensing of Aerosols from Space: Information Content of Monochromatic Atmospheric Reflectances, N. T. O'Neill, A. Royer, and L. Hubert, 34:193

Thermal Infrared Radiance Model for Interpreting the Directional Radiometric Temperature of a Vegetative Surface, J. A. Sobrino and V. Caselles, 33:193

Use of Narrow-Band Spectra to Estimate the Fraction of Absorbed Photosynthetically Active Radiation, F. G. Hall, K. F. Huemmrich, and S. N. Goward, 32:47

Reflectance Measurements

Assessment of Vegetation and Soil Water Regimes in Partial Canopies with Optical Remotely Sensed Data, A. R. Huete and A. W. Warrick, 32:155

Bidirectional Measurements of Surface Reflectance for View Angle Corrections of Oblique Imagery, R. D. Jackson, P. M. Teillet, P. N. Slater, G. Fedosejeva, M. F. Jasinski, J. K. Aase, and M. S. Moran, 32:189

Bidirectional Reflectance Factors of Agricultural Targets: A Comparison of Ground-, Aircraft-, and Satellite-Based Observations, P. J. Pinter Jr., R. D. Jackson, and M. S. Moran, 32:215

Multisite Analyses of Spectral-Biophysical Data for Corn, C. L. Wiegand, A. H. Gerbermann, K. P. Gallo, B. L. Blad, and D. Dusek, 33:1

Radiometric Measurements of Gap Probability in Conifer Tree Canopies, B. J. Albers, A. H. Strahler, X. Li, S. Liang, and K. C. Clarke, 34:179

Spectral Response of Wheat and Its Relationship to Agronomic Variables in the Tropical Region, B. F. T. Rudorff and G. T. Batista, 31:53

Sensor Calibration

Comparison of CNES Spherical and NASA Hemispherical Large Aperture Integrating Sources: I. Using a Laboratory Transfer Spectroradiometer, B. Guenther, J. McLean, M. Leroy, and P. Henry, 31:85

Comparison of CNES Spherical and NASA Hemispherical Large Aperture Integration Sources: II. Using the SPOT-2 Satellite Instruments, M. Leory, P. Henry, B. Guenther, and J. McLean, 31:97

Prelaunch Calibration of the NOAA-11 AVHRR Visible and Near IR Channels, P. Abel, 31:227

Radiometric Properties of the NS001 Thematic Mapper Simulator Aircraft Multispectral Scanner, B. L. Markham and S. P. Ahmad, 34:133

Three Methods for the Absolute Calibration of the NOAA AVHRR Sensors In-Flight, P. M. Teillet, P. N. Slater, Y. Ding, R. P. Santer, R. D. Jackson, and M. S. Moran, 31:105

Snow

Satellite-Derived Reflectance of Snow-Covered Surfaces in Northern Minnesota, D. K. Hall, W. M. Kovalick, and A. T. C. Chang, 33:87

Soil

Observed Effects of Soil Organic Matter Content on the Microwave Emissivity of Soils, P. E. O'Neill and T. J. Jackson, 31:175

On the Information Content of Soil Reflectance Spectra, J. C. Price, 33:113

Properties and Comparison of Temperature-Independent Thermal Infrared Spectral Indices with NDVI for HAPEX Data, Z.-L. Li and F. Becker, 33:165

Separability of Soils in a Tallgrass Prairie Using SPOT and DEM Data, H. Su, E. T. Kanemasu, M. D. Ransom, and S.-S. Yang, 33:157

Spectral Indices

Assessment of Vegetation and Soil Water Regimes in Partial Canopies with Optical Remotely Sensed Data, A. R. Huete and A. W. Warrick, 32:155

Atmospheric and Viewing Angle Correction of Vegetation Indices and Grassland Fuel Moisture Content Derived from NOAA/AVHRR, G. W. Paltridge and R. M. Mitchell, 31:121

Calculating the Vegetation Index Faster, R. E. Crippen, 34:71

Multisite Analyses of Spectral-Biophysical Data for Corn, C. L. Wiegand, A. H. Gerbermann, K. P. Gallo, B. L. Blad, and D. Dusek, 33:1

Properties and Comparison of Temperature-Independent Thermal Infrared Spectral Indices with NDVI for HAPEX Data, Z.-L. Li and F. Becker, 33:165

Sensitivity of the Normalized Difference Vegetation Index to Subpixel Canopy Cover, Soil Albedo, and Pixel Scale, M. F. Jasinski, 32:169

Temperature-Independent Spectral Indices in Thermal Infrared Bands, F. Becker and Z.-L. Li, 32:17

Spectral-Radiometric Measurements

Assessment of Vegetation and Soil Water Regimes in Partial Canopies with Optical Remotely Sensed Data, A. R. Huete and A. W. Warrick, 32:155

Bidirectional Reflectance Factors of Agricultural Targets: A Comparison of Ground-, Aircraft-, and Satellite-Based Observations, P. J. Pinter Jr., R. D. Jackson, and M. S. Moran, 32:215

Comparison of CNES Spherical and NASA Hemispherical Large Aperture Integrating Sources: I. Using a Laboratory Transfer Spectroradiometer, B. Guenther, J. McLean, M. Leroy, and P. Henry, 31:85

Comparison of CNES Spherical and NASA Hemispherical Large Aperture Integration Sources: II. Using the SPOT-2 Satellite Instruments, M. Leroy, P. Henry, B. Guenther, and J. McLean, 31:97

Improved Evaluation of Optical Depth Components from Langley Plot Data, S. F. Biggar, D. I. Gellman, and P. N. Slater, 32:91

Lidar Determination of Horizontal and Vertical Variability in Water Vapor over Cotton, F. J. Barnes, R. J. Karl, K. E. Kunkel, and G. L. Stone, 32:81

Multisite Analyses of Spectral-Biophysical Data for Corn, C. L. Wiegand, A. H. Gerbermann, K. P. Gallo, B. L. Blad, and D. Dusek, 33:1

Obtaining Surface Reflectance Factors from Atmospheric and View Angle Corrected SPOT-1 HRV Data, M. S. Moran, R. D. Jackson, G. F. Hart, P. N. Slater, R. J. Bartell, S. F. Biggar, D. I. Gellman, and R. P. Santer, 32:203

Spectroscopy

Field Testing Long-Path Fourier Transform Infrared (FTIR) Spectroscopy for Measurements of Atmospheric Gas Concentrations, J. Gosz, D. I. Moore, C. N. Dahm, and S. Hofstadler, 32:103

High Resolution Derivative Spectra in Remote Sensing, T. H. Demetriades–Shah, M. D. Steven, and J. A. Clark, 33:55

On the Information Content of Soil Reflectance Spectra, J. C. Price, 33:113

Use of Narrow-Band Spectra to Estimate the Fraction of Absorbed Photosynthetically Active Radiation, F. G. Hall, K. F. Huemmrich, and S. N. Goward, 32:47

SPOT

Bidirectional Reflectance Factors of Agricultural Targets: A Comparison of Ground-, Aircraft-, and Satellite-Based Observations, P. J. Pinter Jr., R. D. Jackson, and M. S. Moran, 32:215

Combination of Digital Elevation Models with SPOT-1 HRV Multispectral Imagery for Reflectance Factor Mapping, C. Yang and A. Vidal, 32:35

Comparative Analysis of Landsat-5 TM and SPOT HRV-1 Data for Use in Multiple Sensor Approaches, J. Hill and D. Aifadopoulou, 34:55

Comparison of CNES Spherical and NASA Hemispherical Large Aperture Integrating Sources: I. Using a Laboratory Transfer Spectroradiometer, B. Guenther, J. McLean, M. Leroy, and P. Henry, 31:85

Comparison of CNES Spherical and NASA Hemispherical Large Aperture Integration Sources: II. Using the SPOT-2 Satellite Instruments, M. Leroy, P. Henry, B. Guenther, and J. McLean, 31:97

Obtaining Surface Reflectance Factors from Atmospheric and View Angle Corrected SPOT-1 HRV Data, M. S. Moran, R. D. Jackson, G. F. Hart, P. N. Slater, R. J. Bartell, S. F. Biggar, D. I. Gellman, and R. P. Santer, 32:203

Separability of Soils in a Tallgrass Prairie Using SPOT and DEM Data, H. Su, E. T. Kanemasu, M. D. Ransom, and S.-S. Yang, 33:157

Thermal Measurements

Aerodynamic Parameters for a Sparsely Roughened Surface Composed of Small Cotton Plants and Ridged Soil, A. D. Matthias, W. P. Kustas, L. W. Gay, D. I. Cooper, L. M. Alves, and P. J. Pinter Jr., 32:143

An Analysis of an Urban Heat Sink, W. H. Carnahan and R. C. Larson, 33:65

Instantaneous and Daily Values of the Surface Energy Balance over Agricultural Fields Using Remote Sensing and a Reference Field in an Arid Environment, W. P. Kustas, M. S. Moran, R. D. Jackson, L. W. Gay, L. F. W. Duell, K. E. Kunkel, and A. D. Matthias, 32:125

A Simplified Method to Estimate Regional 24-h Evapotranspiration from Thermal Infrared Data, H. A. M. Thunnissen and G. J. A. Nieuwenhuis, 31:211

Spectral Estimates of Net Radiation and Soil Heat Flux, C. S. T. Daughtry, W. P. Kustas, M. S. Moran, P. J. Pinter Jr., R. D. Jackson, P. W. Brown, W. D. Nichols, and L. W. Gay, 32:111

Temperature-Independent Spectral Indices in Thermal Infrared Bands, F. Becker and Z.-L. Li, 32:17

Thermal Infrared Radiance Model for Interpreting the Directional Radiometric Temperature of a Vegetative Surface, J. A. Sobrino and V. Caselles, 33:193

Yield Estimation of Sugarcane Based on Agrometeorological-Spectral Models, B. F. T. Rudorff and G. T. Batista, 33:183

Topography

Combination of Digital Elevation Models with SPOT-1 HRV Multispectral Imagery for Reflectance Factor Mapping, C. Yang and A. Vidal, 32:35

Separability of Soils in a Tallgrass Prairie Using SPOT and DEM Data, H. Su, E. T. Kanemasu, M. D. Ransom, and S.-S. Yang, 33:157

Urban

An Analysis of an Urban Heat Sink, W. H. Carnahan and R. C. Larson, 33:65

Vegetation Reflectance

Use of Narrow-Band Spectra to Estimate the Fraction of Absorbed Photosynthetically Active Radiation, F. G. Hall, K. F. Huemmrich, and S. N. Goward, 32:47

Vegetation in Deserts: I. A Regional Measure of Abundance from Multispectral Images, M. O. Smith, S. L. Ustin, J. B. Adams, and A. R. Gillespie, 31:1

Vegetation in Deserts: II. Environmental Influences on Regional Abundance, M. O. Smith, S. L. Ustin, J. B. Adams, and A. R. Gillespie, 31:27

Vegetation Stress

Assessment of Vegetation and Soil Water Regimes in Partial Canopies with Optical Remotely Sensed Data, A. R. Huete and A. W. Warrick, 32:155

Polarimetric Indication of Plant Stress, V. I. Kharuk and V. V. Yegorov, 33:35

Water Quality

Application of Aircraft Multispectral Scanner Data to Algae Mapping Over the Venice Lagoon, G. Zibordi, F. Parmiggiani, and L. Alberotanza, 34:49

Nature of Suspended Solids and IRS1A-LISSI Data: A Case Study of Tawa Reservoir (Narmada Basin), V. K. Choubey and V. Subramaniam, 34:207

The Relationship of MSS and TM Digital Data with Suspended Sediments, Chlorophyll, and Temperature in Moon Lake, Mississippi, J. C. Ritchie, C. M. Cooper, and F. R. Schiebe, 33:137